



# RESEARCH, DESIGN & DEVELOPMENT

*Proven Systems for Experimental Aircraft*

## RDD History and Growth

RDD was founded in 2006 to serve the High Performance Personal Aircraft Market. The company has seen good growth throughout its 10 years and has diversified across similar and complementary competencies to maintain profitability.

RDD has grown into a full service aviation based organization with capabilities including:

Aerospace systems design, including firewall forward

Aero structures design

Composite manufacturing

Aerospace systems integration

Aircraft modification

Aircraft maintenance, piston normally aspirated and turbocharged, turboprop (PT6 and Walter experience), pressurized and non-pressurized aircraft

Aircraft flight evaluation (both systems and aero)

Aircraft interiors

Aircraft exterior finishing, including prime and bodywork of composite aircraft

Avionics interface design

Avionics instrument panel manufacturing

Electrical harness fabrication

Electrical system design

Pressure vessel design

Deice system design, including LEWICE and heater design

Composite grafoil/fiberglass conforming leading edge deice heater design

Composite heater manufacturing

Composite tooling

Composite assembly tooling design

Turbine inlet heater design

Turbine inlet heater manufacturing (4 models of PT6, one model of Walter on Epic, Lancair, and King Air)

FAA Part 21 Quality System oversight and

Production Certificate management, including ACSEP system audit and compliance

Flight Instruction development, including

creation of Insurance Industry accepted syllabus for piston and turboprop pressurized aircraft

Experimental aircraft construction assistance

Process definition and improvement

Business mergers and acquisition

Business development

Project management

Key projects include:

- Initially launched a deice product into the Experimental Market – Therm-X. Therm-X now installed on nearly 100 aircraft from the Lancair Legacy through the Evolution.
- Perlan II Glider construction and design completion (Airbus funded and partnered program)
- Developed Evolution Build process to deliver a completed aircraft in 4 months from receipt of kit
- Developed the LX7 conversion to the IV-P – safety and performance improvements
- In discussions with other airframe manufacturers to assist them in product development

RDD services nearly 100 aircraft per year in our facilities. RDD embraces lean enterprise process management and is implementing 5S and other process management tools to maintain consistency and quality. There is a master schedule for the company that is reviewed weekly with each individual shop to maintain flow through the organization.

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